

CLEAN VERSION

IN THE CLAIMS

Please cancel claims 2, 4, 9-11, 22, 24, and 29-31.

Please substitute claims 1, 3, 7, 8, 12-14, 18, 19, 21, 23, 27, 28, 32-34, 38, and 39 for the corresponding pending claim(s) with the same number(s) as follows:

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1. (Amended) An optical display system for displaying a projected image, comprising:
- a projector that projects an image beam that forms the projected image;
  - a prismatic optical panel, wherein said panel includes a prismatic first side optically aligned with said projector for receiving said image beam at an acute angle of incidence thereto, wherein said panel is effective for reflecting said image beam, wherein said panel displays said reflected image beam from an opposite second side thereof, wherein said panel first side includes a multitude of parallel elongated prisms, and wherein each of said prisms includes a first facet for channeling said image beam therethrough, and an opposite second facet adjoining said first facet for reflecting said image beam toward said panel second side; and
  - a reflective coating at each said second facet for effecting specular reflection of said image beam inside said prisms.
3. (Amended) A display system according to claim 1 wherein the projector comprises imaging optics that image said image beam across said panel first side, wherein said imaging optics laterally and transversely scale said image beam.
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7. (Amended) A display system according to claim 1 further comprising a diffuser at said panel second side.

8. (Amended) A display system according to claim 1 wherein said panel has a width and a height, and wherein said prisms extend in length laterally across said panel width, and are spaced transversely across said panel height.

12. (Amended) A display system according to claim 1 wherein each of said prisms is elongated and triangular, with said first and second facets defining opposite sides thereof intersecting at an apex having an included apex angle therebetween.

13. (Amended) A display system according to claim 1 wherein said first and second facets of adjoining prisms define a groove therebetween.

14. (Amended) A display system according to claim 1 further comprising a light control layer at said panel second side.

18. (Amended) A display system according to claim 1 wherein said panel includes a tint comprising dark dye molecules or dark particulates.

19. (Amended) A display system according to claim 1 further comprising a tint layer at said panel second side, wherein said tint layer includes a tint comprising dark dye molecules or dark particulates.

21. (Amended) A method of displaying a projected image, said method comprising the steps of:

projecting an image beam with a projector, said image beam forming the projected image; and

receiving, turning, and displaying said image beam with a prismatic optical panel, wherein said panel includes a prismatic first side optically aligned with said projector, wherein said step of receiving said image beam occurs at an acute angle of incidence to the panel first side, wherein said step of displaying said image beam occurs at a panel second side which is opposite to the panel first side, wherein said panel first side includes a multitude of parallel elongated prisms, wherein said step of receiving said image beam comprises the step of channeling said image beam through first facets of said prisms, wherein said step of turning said image beam comprises the step of reflecting said image beam toward said panel second side, wherein said step of reflecting occurs at second facets which are opposite to said first facets, wherein each of said second facets adjoin a corresponding first facet, and wherein said second facets have a reflective coating thereat for effecting specular reflection of said image beam inside said prisms.

23. (Amended) A method according to claim 21 wherein the step of projecting comprises imaging said image beam across said panel first side with imaging optics, wherein said imaging optics laterally and transversely scale said image beam.

27. (Amended) A method according to claim 21 further comprising the step of diffusing the projected image with a diffuser at said panel second side.

28. (Amended) A method according to claim 21 wherein said panel has a width and a height, and wherein said prisms extend in length laterally across said panel width, and are spaced transversely across said panel height.

32. (Amended) A method according to claim 21 wherein each of said prisms is elongated and triangular, with said first and second facets defining opposite sides thereof intersecting at an apex having an included apex angle therebetween.

33. (Amended) A method according to claim 21 wherein said first and second facets of adjoining prisms define a groove therebetween.

34. (Amended) A method according to claim 21 further comprising the step of directing the projected image to a desired location with a light control layer at said panel second side.

38. (Amended) A display system according to claim 21 wherein said panel includes a tint comprising dark dye molecules or dark particulates.

39. (Amended) A display system according to claim 21 wherein said panel includes a tint layer at said panel second side, and wherein said tint layer includes a tint comprising dark dye molecules or dark particulates.

Please add new claims 41-50:

41. A display system according to claim 1, wherein said reflective coating is positioned at only a portion of each said second facet.

42. A display system according to claim 41, wherein said first and second facets define opposite sides thereof intersecting at an apex, and wherein said reflective coating is located substantially at the apex.

43. A display system according to claim 1, wherein said reflective coating comprises a mirror.

44. An optical display system for displaying a projected image, comprising:  
a projector that projects an image beam that forms the projected image;  
a prismatic optical panel, wherein said panel includes a prismatic first side optically aligned with said projector for receiving said image beam at an acute angle of incidence thereto, wherein said panel is effective for reflecting said image beam, wherein said panel displays said reflected image beam from an opposite second side thereof; and

a light control layer at said panel second side, wherein said light control layer comprises microlouvers which direct the projected image to a desired location, and wherein said microlouvers are dark in color such that ambient light is absorbed thereby enhancing contrast of said projected image.

45. A display system according to claim 44 wherein said microlouvers are encased in a thin film comprised of plastic or glass.

46. A method according to claim 21, wherein said reflective coating is positioned at only a portion of each said second facet.

47. A method according to claim 46, wherein said first and second facets define opposite sides thereof intersecting at an apex, and wherein said reflective coating is located substantially at the apex.

48. A method according to claim 21, wherein said reflective coating comprises a mirror.

49. A method of displaying a projected image, said method comprising the steps of:  
projecting an image beam with a projector, said image beam forming the projected  
image;

receiving, turning, and displaying said image beam with a prismatic optical panel,  
wherein said panel includes a prismatic first side optically aligned with said projector, wherein  
said step of receiving said image beam occurs at an acute angle of incidence to the panel first  
side, wherein said step of displaying said image beam occurs at a panel second side which is  
opposite to the panel first side; and

directing the projected image to a desired location with a light control layer at said  
panel second side, wherein said light control layer comprises microlouvers, and wherein said  
microlouvers are dark in color such that ambient light is absorbed thereby enhancing contrast of  
said projected image.

50. A method according to claim 49, wherein said microlouvers are encased in a thin  
film comprised of plastic or glass.